GAPRINDASHVILI, V.N.

Hydrometallurgical treatment of antimony-arsenic ores. Trudy
Inst. prikl. khim. i elektrokhim. AN Gruz. SSR 2:147-159 '61.

(Arsenic ores) (Antimony ores)

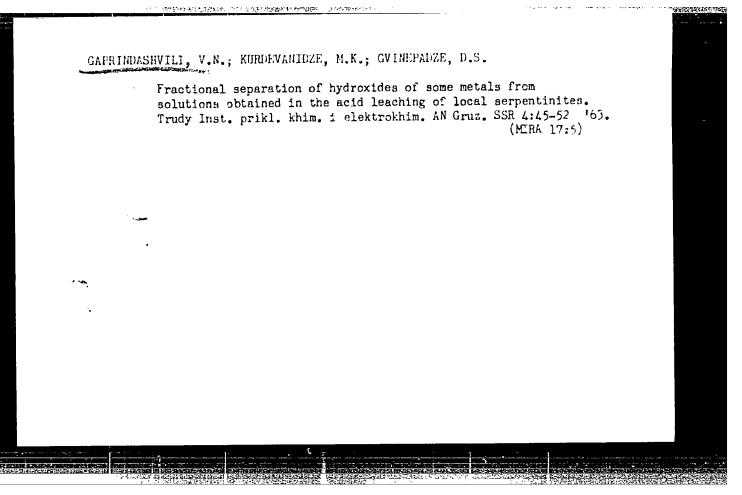
(Arsenic ores)

CAPRINDACHVILI, V.N.; KILADZE, D.N.; KURDEVANIDZE, M.K.

Problem of the complete treatment of TSnelissk sepentinites.
Trudy Inst.prikl.khim.i elektrokhim.AN Gruz.SSR 3:73-85 *62.

(MIRA 16:1)

(Georgia—Sepentinites)



GAIRINDASHVILL, V.N., GOGICHADZE, L.K.

Nitric acid treatment of Georgian despentinites. Goob, AN Gruz.
SSR 38 no.2:295-301 My '65. (MIRA 18:9)

1. Institut prikladnoy khimii i elektrokhimii AN GruzGSR.
Submitted August 15, 1964.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-3"

KOSHARNY, I.Ta. [Kosharnyi, I.IA.]; PIDPRIGORSHCHUK, M.V.; GAPSHENKO, I.I.;

SKRIPNIK, K.I.; KASHCHETEV, I.A., red.; KUTSENKO, V.P., red.;

NIKOLATENKO, V.S., red.; POTAICHUK, I.M. [Fotaichuk, I.M.], vidp.

red.; SKNIZKUK, F.L., red.; FOOT, V.Ia., tekhn. red.

[Soviet Drogobych Province] Radians ka Drohobychchyna. Drohobych,

Drohobyts ke obl. vyd-vo, 1957. 199 p.

(Drogobych Province)

GAPTRAKHMANOVA, K. G.

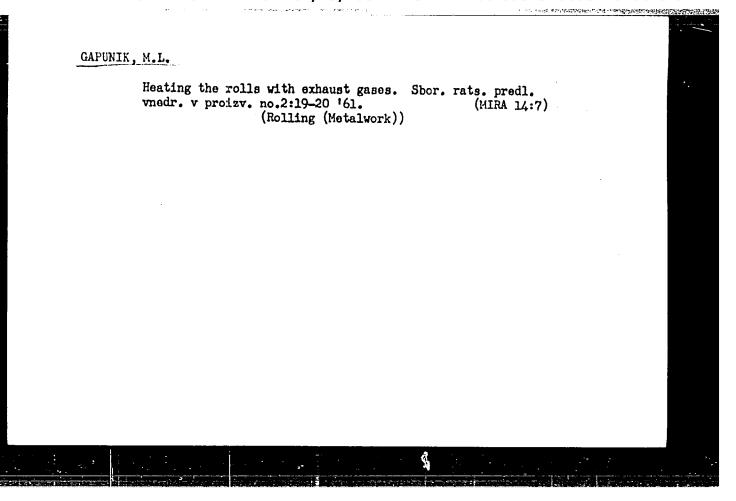
"Propolis Therapy for Apricultural Animals Suffering From Mecrobacillosis." Cand Vet Sci, Kazan' State Veterinary Inst, Kazan', 195h. (RZhmiol, No 5, Mar 55)

SO: Sum. No. 670, 29 Sep 55—Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

BARSINA, V.Yu.; CHIB, Yo.G.; GAPUSINA, C.V.; SKUDAR', I.E.

Lie matory model of a steaming unit for correction tests. Zav. lab.
30 nc.1:1280-12-% '64.

1. Nauchno-is.thedovatel'skiy institut osnovnoy khimii.



GAFUNIK, M.L.; DUDAREV, V.A.; SPIVAK, E.I.

Operation of heating furnaces of a medium sheet mill. Stal!
22 no.2:176-178 F '62. (MIRA 15:2)

1. Zavod "Amurstal!" i TSentroenergochemet.
(Rolling mills)
(Furnaces, Heating)

KISELEV, T.; DIORDITSA, A.; TYNURIS, E.; CHOGOVADZE, G.; BEGMATOVA, S.; GAPUROV, M.; KAKHAROV, A.

The entire country participates in foreign trade. Vnesh. torg. 43 no.12: 6-12 '63. (MIRA 17:2)

1. Predsedatel' Soveta Ministrov Belorasskoy SSR (for Kiselev). 2. Predsedatel' Soveta Ministrov Moldavskoy SSR (for Diorditsa). 3. Zamestitel' Predsedatelya Soveta Ministrov Estonskoy SSR (for Tynuris). 4. Zamestitel' Predsedatelya Soveta Ministrov Gruzinskoy SSR (for Chogovadze). 5. Zamestitel' Predsedatelya Soveta Ministrov Kirgizskoy SSR (for Begmatova). 6. Predsedatel' Soveta Ministrov Turkmenskoy SSR (for Gapurov). 7. Predsedatel' Soveta Ministrov Tadzhikskoy SSR (for Kakharov).

"APPROVED FOR RELEASE: 07/19/2001

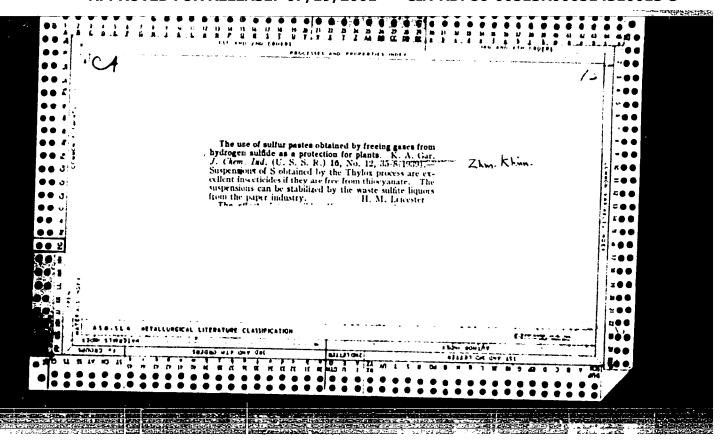
CIA-RDP86-00513R000514310013-3

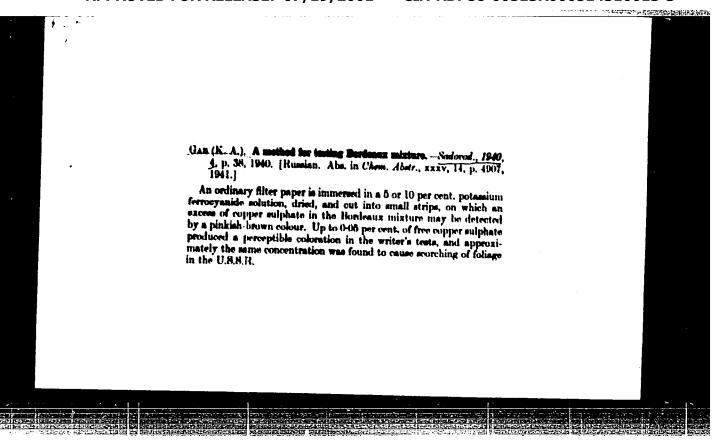
GARVAY, M.: 1.1YEV, 1.; ETRINO, 3.; TTMINEUT, 3.; A. P. WALLEY, E.;

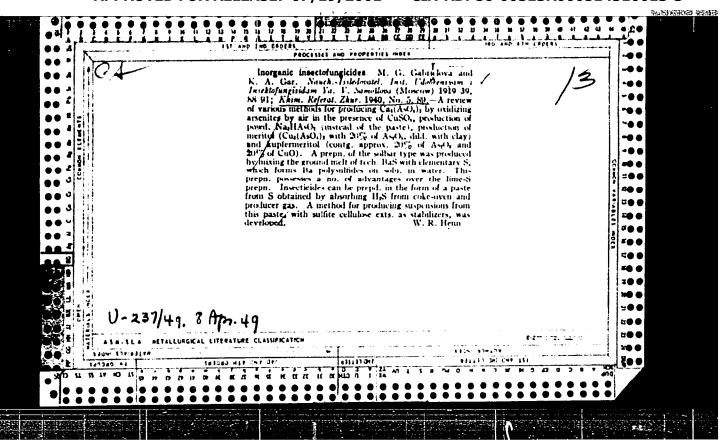
Kharrer, P.; Marrey, 7.

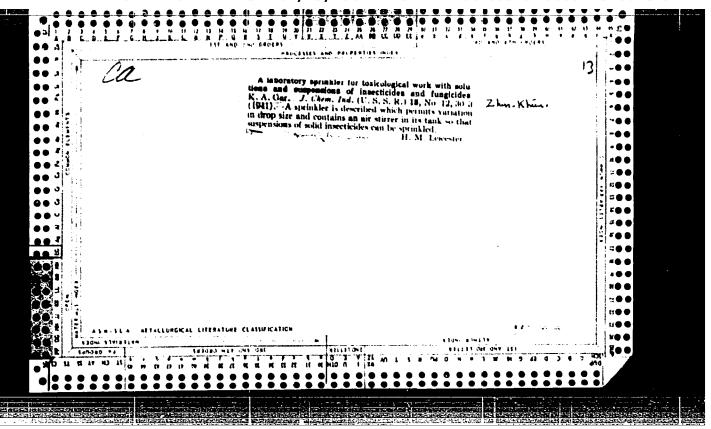
In the land of sands and creation Voen vami. 1.1 a. 2.24-18 F 165.

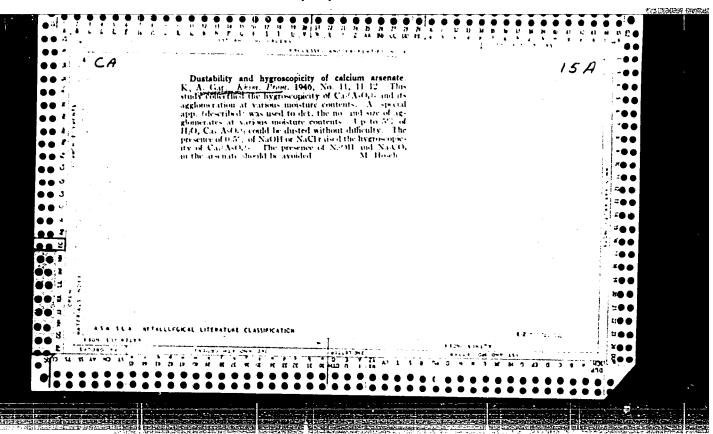
1. Predeedatel' Soveta Ministry Surkashakey and effor Gaparov).
2. Predeedatel' rel'skohhervayetvenney artell 'Sovet Techannistain' (for Sopiyev).
3. Predeedatel' laminakero includit l'e. a konitata rayonnogo Soveta deputatov trubuchenikhaya kahkhabada for Karayeva).
4. Machal'nik kahkhabadahoy ahkoly prachdanakey oborony Vesesyumnogo obaiclestva a deputviya armii, aviatain i flotu SSR (for Avanaradov).
5. A. e. al'nik Achkhabadakikh h roov grashdanakey oborony (for Klychianadov).
6. Francis and F. Tranoir and F. Tranoir and F. Tranoir allyway).
6. Predeedatel' holy base "Marry 2. Conformation of the allyway.
6. Boye's grast a normal and normal and produce the allyway.
6. Boye's grast a normal and normal and produce the allyway.
6. Boye's grast a normal and normal and produce the allyway.

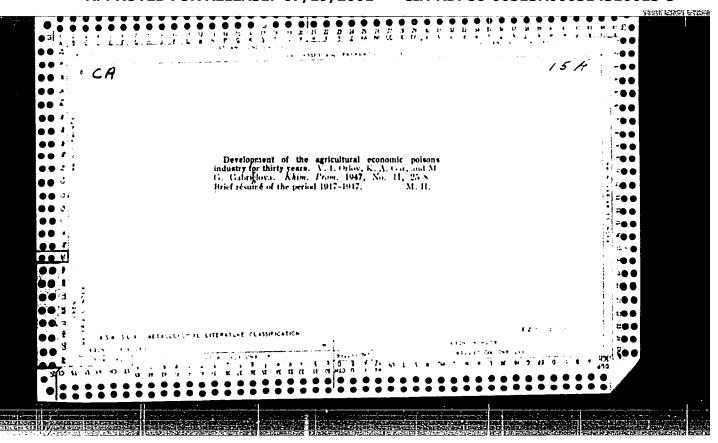












GAR, K. A.

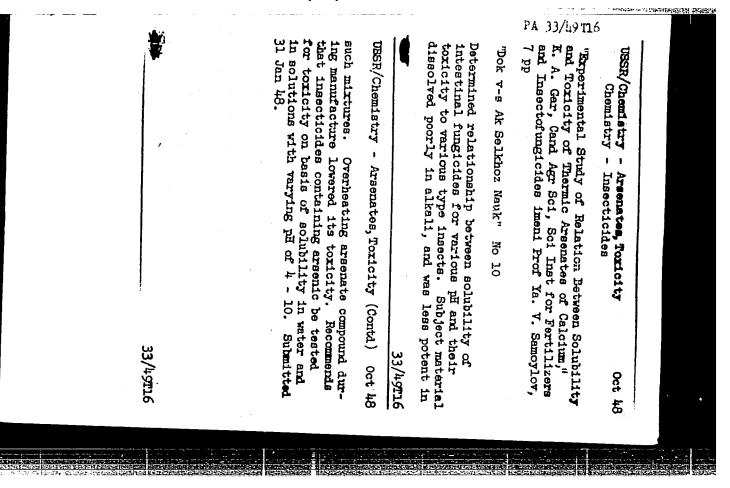
"Indicine - Insecticides New 47

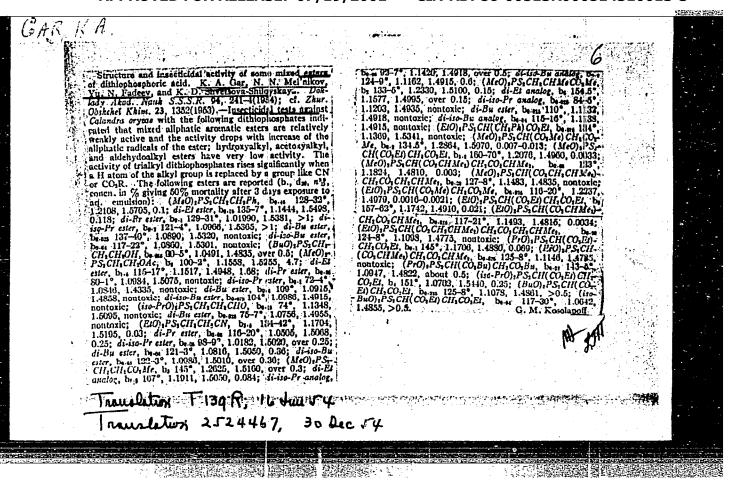
"Development of the Agricultural Insecticide Industry in Thirty Years," V. I. Orlow, Cand Tach Sci, K. A. Gar, Cand Agr Sci, M. G. Cabriyolova, Card Tach Sci, 31 pp

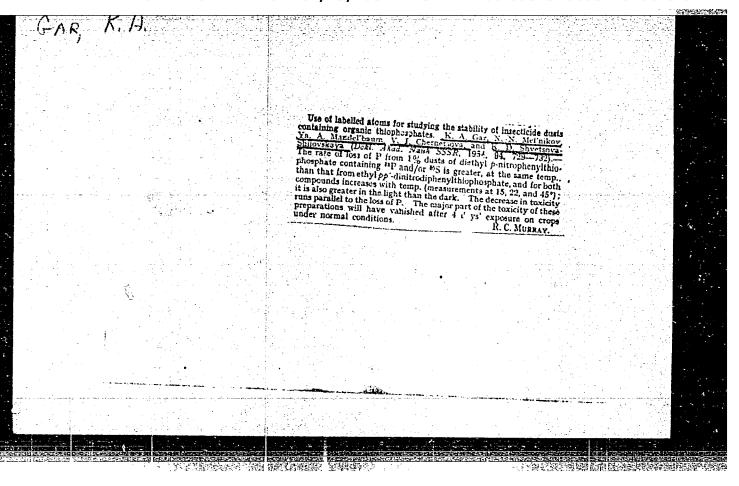
"Khimicheskaya Fromyshlennest" No 11 - p. 341-44

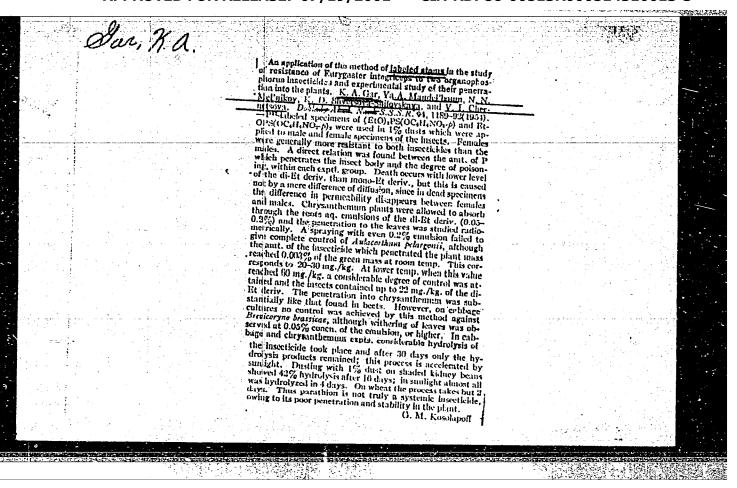
Mistorical account of development in the insecticide industry. Persons important in chemical research work in insecticides are listed and some examples are resemted of the tochnological progress and development of insecticide products.

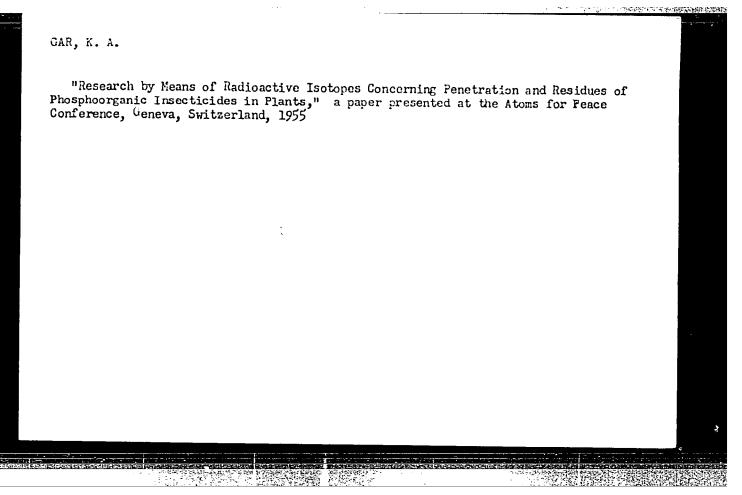
PA 34748











6AR, K. A.

USSR/ Medicine - Physiology

Card 1/1

Pub. 22 - 46/49

Authors

Gar, K. A.; Sazonova, N. A.; and Fadeyev, Yu. N.

Title

Decomposition and separation of diethyl-4-nitrophenylthiophosphate from the organism of a rabbit during intravenous introduction

Periodical

Dok. AN SSSR 102/1, 185-187, May 1, 1955

Abstract

Experiments were conducted on rabbits injected intravenuously with a toxic phosphor-organic compound (diethyl-4-nitrophenylthiophosphate) to determine the rate of decomposition of the toxin and its separation from the living organism of the animal. Results obtained are listed. Five USA references (1950-1953). Graph.

Institution :

Sc. Res. Inst. of Fertil. and Insectofungicides im. Ya. V. Samoylov

Presented by :

Academician Ye. N. Pavlovskiy, December 29, 1954

handston D-383015 D-457707

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514310013-3

GAR, K.A.

USSR/ Medicine - Physiology

Card 1/1

Pub. 22 - 46/46

Authors

Gar, K. A.; Sazonova, N. A.; and Fadeyev, Yu. N.

Title

Penetration of dimethyl-4-nitrophenylthiophosphate into the blood stream and its effect on the activity of cholinesterase during oral poisoning of

rabbits Periodical :

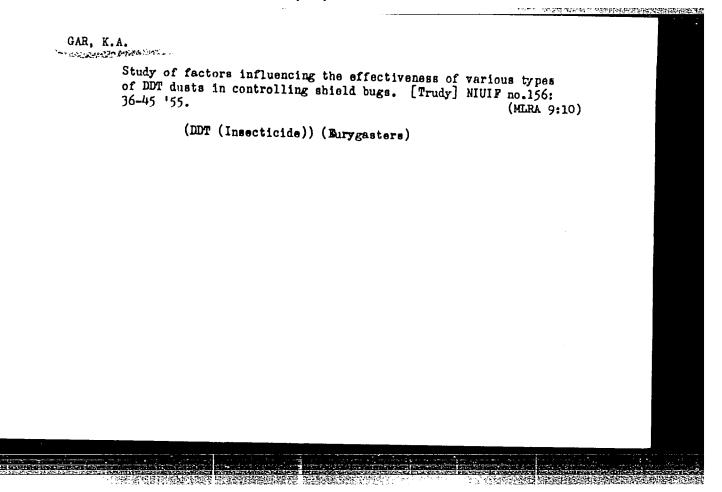
Dok. AN SSSR 103/1, 173-176, Jul 1, 1955

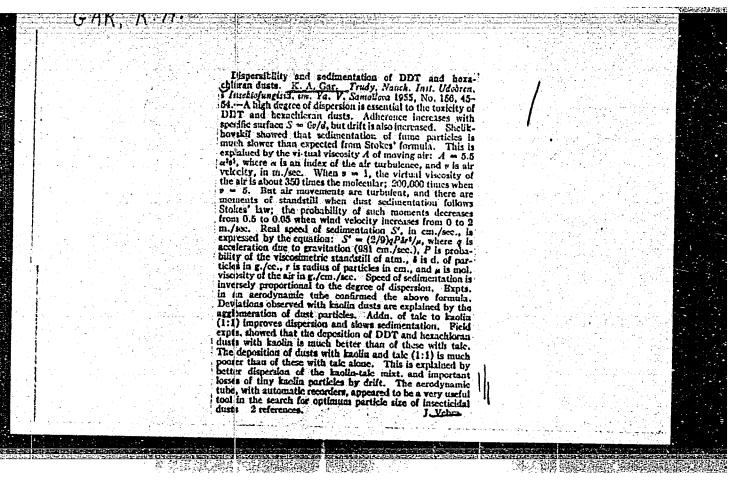
Abstract

Experiments were conducted on rabbits to determine the degree of penetration of dimethyl-4-nitrophenylthiophosphate (administered orally) into the blood stream of the animals and to study its effect on the activity of cholinesterase during the poisoning of the rabbits. Results are described. Eleven references: 8 USA and 3 Eng. (1951-1953). Table; graphs.

Institution: Sc. Inst. on Fertil. and Insectofungicides im. Ya. V. Samoylov

Presented by: Academician V. A. Engel gardt, April 12, 1955





GAR, K.A.; CHERNETSOVA, V.I.

Stability in the toxic action of hexachloro-cyclohexane and DDT dusts under various conditions. [Trudy] NIUIF no.156:55-64 '55. (MLRA 9:10)

(IDT (Insecticide))
(Benzene hexachloride)

GAR, K.A.; MOICHANDY, A.V.; BEZOBRAZOV, Yu.N.; DUBOVITSKIY, A.M.

Using the ash from Cottrell filters of electric power stations
as filler in preparing dusts. [Trudy] NIUIF no.156:73-89 '55.

(MLRA 9:10)

(Insecticides) (Ash (Technology))

GAR, Konstantin Arkad'yevich

632.58
.G2

Khimicheskiye Preparaty Dlya Zashchity Rasteniy (Chemicals for Plant Protection)

Moskva, Sel'khozgiz, 1956.

115 p. illus., tables.

"Literatura"; p. (114)

KAMSHILOV, N.A.; ANTONOV, M.V.; BAKHAREV, A.N.; BLINOV, L.F.; BORISOGLEBSKIY,
A.D.; GAR, K.A.; GARIMA, K.P.; GORSHIN, P.F.; GUTIYEV, G.T.;

DELITSINA, A.V.; DUEROVA, P.F.; YEVTUSHENKO, A.F.; YEGOROV, V.I.;

YERRHCHKO, L.L; YEFINOV, V.A.; ZHILITSKIY, YA.Z.; ZHUCHKOV, N.G.,

prof.; ZAYETS, V.K.; ISKOLIDSKAYA, R.B.; KOLESNIKOV, V.A., Drof.;

KOLISHIKOV, Ye.V.; KOSTIMA, K.F.; KRUGLOVA, V.A.; LEONT'YEVA, M.N.;

LESYUK, Ye.A.; MUKHIN, Ye.N.; NAZAHYAN, Ye.A.; NEGRUL', A.M., prof.;

ODITSOV, V.A.; OSTAPENKO, V.I.; PETRUSEVICH, P.S.; PROSTOSERDOV,

N.N., prof.; RUKAVISHNIKOV, B.I.; RYABOV, I.N.; SABUROV, N.V.;

SABUROVA, T.N.; SAYDARG, V.R.; SEMIM, V.S.; SINDROVOVA, M.M.;

SHOLYANIHOVA, N.K.; SOBOLEVA, V.P.; TARASENKO, M.T.; FETISOV, G.G;

CHIZHOV, S.T.; CHUGUNIN, Ya.V., prof.; YAZVITSKIY, M.N.;

ROSSOSHCHANSKAYA, V.A., red.; BALLOD, A.I., tekhn.red.

[Fruitgrower's dictionary and handbook] Slovar'-spravochnik

sadovoda. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 639 D.

(MIRA 11:1)

(Fruit culture--Dictionaries)

P

GAR, K.A.

USSR / General and Specialized Zoology. Insects. Insect and Mite Pests.

: Ref Zhur - Biol., No 10, 1998, No 44846 Abs Jour

: Gar, K. A.; Granin, Ye. F. Authors

: Not civen : The Testing of New Preparations for Presowing Treatment of Inst Title

Sugar-Boot Soods.

: Zashchite rast. ot vredit. i bolezney, 1957, No. 1, 46. Orig Pub

: Chlordane, heptachlor, aldrin, dieldrin, isodrine and endrine Abstract were tested in experiments on small plots. Ethalone - HCCH

(technical and enriched with gamma-isomer to 99-100 percent). The effectiveness was determined at various periods (up to 9 days) after sprouts appeared in glass containers on the plots The dead beetles were counted 1 1/2 and 3 days after adding

them to the plant containers. All the insecticides tested led

Card 1/2

GAR, K.A.

"Preparations Tested Against Suctorial Cotton Pests," by A. V. Flyagina, Senior Scientific Collaborator at the All-Union Scientific Research Institute of Cotton Growing, Tashkent, Zashchita Rasteniy ot Vrediteley i Bolezney, Moscow, Vol 2, No 1, Jan/Feb 57, p 47

Tests were carried out to determine the comparative effectiveness of organophosphorus insecticides and chlorinated terpene insecticides when applied for the control of suctorial pests which attack cotton plants. The tests were conducted at the Station for the Protection of Plants of the Soyuz Scientific Institute of Fertilizers and Insectofungicides. The insecticides that were tested were synthesized at the All-Union Scientific Research Institute of Cotton Growing and included toxaphene, chlorten, chlorten with DDT, polychlorpinene, polytoxaphene, vofatoks, a 30-percent emulsion of thiofos, and a mixture of lime-sulfur decoction with anabazine sulfate. All tests established that the organophosphorus insecticides were considerably more effective than the chlorinated carbon insecticides, and the use of the latter is not recommended.

[Comment: Chlorten is obtained by the photochemical chlorination of a-pinene, and contains no less than 64 percent of chlorine; vofatoks, also known as metafos, is diamethyl-4-nitrophenylthiophosphate, according to Khimicheskiye Preparaty dlya Zashchity Rasteniy (Chemical Preparations for the Protection of Plants) by K. A. Gar, Moscow, 1956, pp 40 and 28.]

Jum. 1305

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-3"

BEZOBRAZOV, Yuriy Nikolayevich; MOIGHANOV, Andrey Vasil'yevich; GAR,
Konstantin Arkad'yevich; RATMANSKIY, H.S., red.; SHPAK, Ye.G.,
tekhn.red.

[Hexachloren, its characteristics, its manufacture, and uses]
Geksakhloren, ego svoistva, poluchenic i primenenie. Moskva,
Gos. nauchno-tekhn. izd-vo khim. lit-ry, 1958. 315 p. (MIRA 11:5)
(Benzene hexachlorid)

USSR/General and Specialized Zoology - Insects. Harmful Insects and Acarids. Chemical Means in the Control of

Harmful Insects and Acarids.

Abs Jour : Ref Zhur Biol., No 6, 1959, 25404

Author : Gar, K.A.

Inst: Industrial Experiments of 65% Concentration of Chlorthene

Orig Pub : V. sb.: Organ. insecto-rungitsidy i gerbitsidy. M.,

Orig Pub : V. sb.: Organ. Insector and Goskhimizatt, 1958, 208-230

Abstract : Of all the chlorthene (Ch) preparations obtained by the

photochemical method, the most acceptable was the preparation containing about 64% of Cl. The reduction of Cl in Ch decreases the toxicity and increases the phytocidic property of the preparation. An increase of Cl in Ch from 64% to 68% slightly increases the toxicity, has little effect on the phytocidic property and somewhat increases the stability of the preparation. On the basis

Card 1/2

- 5 -

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-USSR/General and Specialized Zoology - Insects. Harmful Insects

USSR/General and Specialized Zoology - Insects. Harmful Inse and Acarids. Chemical Means in the Control of

Harmful Insects and Acarids.

Abs Jour : Ref Zhur Biol., No 6, 1959, 25404

of experiments carried out in various USSR zones, there were histed the species of mites and injects and the effectiveness of concentrated emulsions of 65% Ch preparation (they accepted for introduction into practice) used for their control. Effective concentrations of Ch emulsions are not phytociaic to plant species. Pests in the control of which Ch is slightly effective are indicated. The treatment of vegetable cultures in closed ground with aerosols of a 2% solution of technical Ch in green oil was very effective in controlling spider mites on cucumbers and other cultures, calls palustiu and aphids at an outlay of 5-20 cm³/m³ of the solution. A.P. Adrianov

Card 2/2

USSR/General and Specialized Zoology - Insects. Harmful Insects and Acarids. Chemical Means in the Control of

P

Harmful Insects and Acarids.

Abs Jour : Ref Zhur Biol., No 6, 1959, 25405

concentration against caterpillars of the apple and lilac mining moths, and in 0.5 and 1% concentrations against the maple leaf roller. Both concentrate emulsions were highly effective in the control of mites, plum aphids and pear psyllas. When plants were sprayed with emulsions of Ch and DDT not in one case were there observed scaldings of the leaves. -- A.P. Adrianov

Card 2/2

IVANOV, I.I., agronom-entomolog(Khaybullinskiy myon, Bashkirskoy SSR);

LEVIN, R.I.; CAR, K.A.

Letters to the editor. Zashch.rast.ot vred.i bol. 4 no.3:60
My-Je '59. (NIRA 13:4)

1. Zaveduyushchiy punktom slushby ucheta i prognozov Irkutskoy oblasti (for Levin).

(Plants, Protection of)

17 (2)

AUTHORS: Gar, K. A., Yev

Gar, K. A., Yevteyeva, N. V., Andreyeva, Ye. I.

SOV/20-127-6-41/51

TITLE:

On the Fungicidal Activity of the δ -Isomer and of the Mixtures of δ - and χ -Isomers of Hexachlorocyclohexans

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1290 - 1293 (USSR)

ABSTRACT:

The outstanding insecticidal properties of the 7-isomer of the compound mentioned in the title facilitated the production of a number of chemical insecticides for agriculture as well as for veterinary and sanitary disinfection (insect killing). Commercial hexachlorocyclohexane contains 6 isomers. The content of 7-isomer, which is practically the only insecticide, amounts to 10-12%. Many procedures have recently been developed for the purpose of raising the content of 7-isomer. The non-toxic isomers are mostly removed by means of extraction by organic solvents. They may then be further used. Preparations enriched in this way are not only more active but they also change the taste of the crops less than commercial hexachlorocyclohexane. These enriched preparations are particularly important and valuable for seed treatment. In this connection, and in view

Card 1/3

On the Fungicidal Activity of the δ -Isomer and of the SOV/20-127-6-41/51 Mixtures of δ - and \int -Isomers of Hexachlorocyclohexane

of the hypothesis on the poisoning of living organisms by K. A. Gar (Ref 1), the authors carried out a thorough investigation of the remaining isomers, particularly of their fungiand bactericidal activity. The results obtained were not only interesting but they instigated further investigations of this problem. It was ascertained that the $\alpha-$ and $\beta-isomers\ have$ practically no activity whereas the 5-, and particularly the $\hat{\delta}$ -isomers possess fungicidal properties, the toxicity of the latter being very specific for microorganisms. Figure 1 shows photographs of the Petri dishes in which spores and mycelia of the fungi Fusarium and Diplodia were sown upon potato-dextroseagar with addition of 0.05; 0.01 and 0.002% f and δ -isomers. The addition of f-isomer to the nutrient medium inhibited the growth of the colonies only in the case of Diplodia zeae (Schw.) Lev. The δ -isomer, on the other hand, caused either a complete or an extensive suppression of growth in all species of fungi investigated (D.zeae, Fusarium oxysporum, Botrytis sp., a species of penicillium, yeast, etc). The strongest inhibition by medium concentrations is worth mentioning. This particular effect of the two isomers suggests the capability of

Card 2/3

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-3"

On the Fungicidal Activity of the δ -Isomer and of the SOV/20-127-6-41/51 Mixtures of δ - and β -Isomers of Hexachlorocyclohexane

forming so-called tong-like complex compounds with some metals which participate in these or other ferment systems (Ref 3). On the basis of the results obtained, informative field experiments were carried out at the Dolgoprudnaya agrokhimicheskaya stantsiya (Dolgoprudnaya Agrochemical Station) of the Institute mentioned under "Association" (Tables 1 and 2). The treatment of the wheat- and linseeds favored their germinating power, and greatly reduced the affection by fusariosis, or fusariosis and polysporosis respectively. Wheat was fully relieved of wheat smut (Tilletia tritici). The effect was even better than that of the mercury preparations. Doctor R. Smrzh, Yu. N. Bezobrazov, and A. V. Molchanov supplied samples of the preparations. There are 1 figure, 2 tables, and 3 Soviet references.

ASSOCIATION:

Nauchnyy institut po udobreniyam i insektofungicidam (Scientific Institute of Fertilizers and Insectofungicides)

PRESENTED:

May 5, 1959, by S. I. Vol'fkovich, Academician

SUBMITTED: Card 3/3

April 29, 1959

SHOGAM, S.M.; FEN'KOVA, Ye.I.; GAR, K.A.; POSLAVSKIY, Yu.M.; GOLUBEVA, Z.Z.

Investigation of fillers and selection of appropriate machinery for the production of new organic powder insecticides. [Trudy]

NIUIF no.164:3-5 '59. (Insecticides)

GAR, K.A.; DOBROKHOTOVA, N.M.; YEVTEYEVA, N.V.

Studying the processes of penetration and metabolism of some organic insecticides in insects and plants. [Trudy] NIUIF no.164:5-6 '59. (MIRA 15:5) (Insecticides) (Succinic dehydrogenase)

GAR, K.A.; GULENKOVA, L.P.

Selection and evaluation of preparations for controlling the Colorado beetle. [Trudy] NIUIF no.164:6 '59. (MIRA 15:5) (Insecticides)

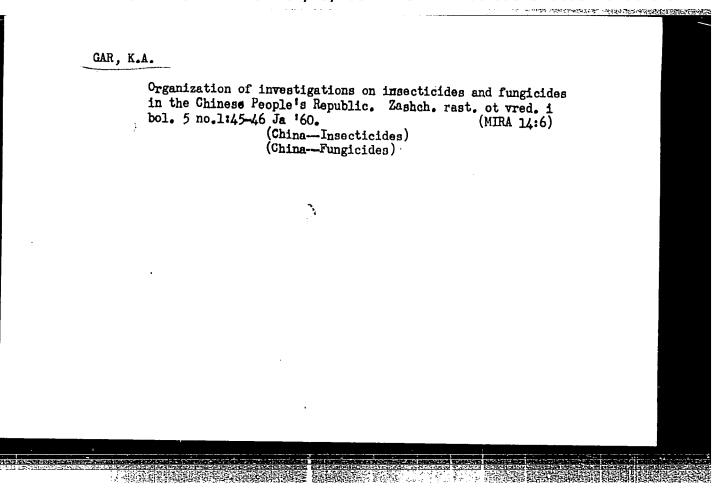
MEL'NIKOV, N.N.; VOL'FSON, L.G.; KUZNETSOVA, K.V.; SAPOZHKOV, Yu.N.;

GAR, K.A.; GRANIN, Ye.F.; FARBER, M.S.

Insecticides baged on hexachlorocyclopentadiene. [Trudy] NIUIF no.164:8-11 '99. (Cyclopentadiene)

(MIRA 15:5)

Invest NIUIF	cigation of the no.164:40-41	159.	chlorinated terpenes. (Insecticides)	[Trudy] (MIRA 15:5)



S/020/60/132/02/28/067 B011/B002

AUTHORS:

Boldyrev, B. G., Gar, K. A., Yevteyeva, N. V.

TITLE:

Esters of Thiosulfonic Acids as New Fungicides arphi

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 2, pp. 346-348

TEXT: Esters (I) of thiosulfonic acids are effective against microorganisms within a wide range. They also stimulate the development of plants thus increasing harvest. The authors investigated the fungicidal properties of methyl esters of alkanethiosulfonic acids (III), and the trichloromethyl esters (IV) of these acids. The authors do not agree with the American investigators (Ref. 3) as regards the assumption that the fungicidal effects of trichloromethyl esters of d i f f e r e n t thiosulfonic acids are the same, regardless of the nature of the radical (Formula IV). This was disproved by the authors (see below). They also tested some aryl esters (V) and (VI) of alkane- and arene-thiosulfonic acids. The fungicidal action of all these esters was tested in the toksikologicheskaya laboratoriya (Toxicological Laboratory) of the Institute imeni Ya. V. Samovlov (see Association) in the following species of fungi: Diplodia zeae, Alternaria radicina, Verticilium dahliae, Fusarium vasinfectum and Fusarium

Card 1/3

Esters of Thiosulfonic Acids as New Fungicides

S/020/60/132/02/28/067 B011/B002

oxysporum. Certain concentrations of these preparations dissolved in acetone, were introduced into agar nutritive media, into which the fungi then were sown. The action of the esters was determined after 5 days. Similar experiments with equal concentrations of Figon, Kaptan, and Tsineb were conducted for comparison. Table 1 shows that trichloromethyl esters of alkanethicsulfonic acids are the most effective among all substances examined (I). During experiments in vitro they had a much better effect than similar esters of arenethiosulfonic acids. This action, however, is not due to the trichloromethyl group; the substitution of chlorine atoms by hydrogen atoms influences the activity of the compounds under consideration. The special effect of the nature of the acid radical R becomes evident during transition into the aryl esters of thiosulfonic acids (V) and (VI). While the aryl esters of methane- and ethanethicsulfonic acids (Table 1, No. 10-13) are still strongly fungicidal and even surpass the trichloromethyl esters of arenethiosulfonic acids (No. 7-9) in their action, aryl esters (VI) are considerably less active than other esters (I). Some of them, however, are not inferior to fungicides as active as Kaptan. The esters discussed here, particularly those of alkanethiosulfonic acids are thus highly active fungicides and are worth further investigation. The action of the fungicides was investigated in the Institut mikrobiologii AN USSR (Institute of

Card 2/3

Esters of Thiosulfonic Acids as New Fungicides

s/020/60/132/02/28/067 B011/B002

A SAN TENER WINDS FEED STREET, STREET, SAN TO SAN THE SAN THE

Microbiology of the Academy of Sciences, UkrSSR). There are 1 table and 2 Soviet

ASSOCIATION: L'vovskiy politekhnicheskiy institut (L'vov Polytechnical Institute). Nauchnyy institut po udobreniyam i insektofungitsidam im. Ya. V.

Samoylova (Scientific Institute of Fertilizers and Insecto-fungi-

cides imeni Ya. V. Samoylov)

January 13, 1960, by S. I. Vol'fkovich, Academician PRESENTED:

SUBMITTED: January 3, 1960

Card 3/3

GAR, K.A.; GUSAKOVA, M.V.; CHEKALINA, V.I.

The control of the co

Investigation of the toxicity and phytocidal capacity of the distillates of some chlorinated terpenes. [Trudy] NIUIF no.171:74-80 '61. (MIRA 15:7) (Chlorine organic compounds) (Insecticides—Toxicology)

POSLAVSKIY, Yu.M.; GOLUBEVA, Z.Z.; GAR, K.A.

Application of DDT dust combined with chlorinated terpenes against cotton belivorms. [Trudy] NIUIF no.171:81-83 '61.

(Bollworm) (DDT (Insecticide)) (Chlorine organic compounds)

	1. Nauchno-	nt diseases and issledovatel's itsidam im. Ya Fungicides)	kiy institut p	o ubodreniyan Moskva.	(MIRA 16:4)	

PEYVE, Ya.V.; PETERBURGSKIY, A.V., doktor sel'khoz. nauk, prof.; GAR, K.A., kand. sel'khoz. nauk; GOLYSHIN, N.M., kand. biol. nauk; KOROTKIKH, G.I., kand. sel'khoz. nauk; CHESALIN, G.A., kand. sel'khoz.nauk; RAKITIN, Yu.V., doktor biol. nauk; ZEZYULINSKIY, V.M., kand. sel'khoz.nauk; DEVYATKIN, A.I., kand. sel'khoz. nauk; VENEDIKTOV, A.M., kand. sel'khoz. nauk; TARANOV, M.G., kand. biol. nauk; BORISOVA, L.G.; BEREZNIKOV, V.V., kand. tekhn.nauk; KONDRATENKO, R.V., st. nauchn.sotr.; BORISOV, F.B., st. nauchn.sotr.

[Chemistry in agriculture] Khimiia v sel'skom khoziaistve. Moskva, Kolos, 1964. 381 p. (MIRA 17:9)

1. Chlen-korrespondent AN SSSR (for Peyve). 2. Nachal'nik laboratorii Nauchno-issledovatel'skogo instituta plastmass (for Borisova). 3. Nauchno-issledovatel'skiy institut plastmass (for Kondratenko, Borisov).

A CONTRACTOR OF THE PROPERTY O

GAR, Konstantin Arkad'yevich; BOBNEVA, N.P., red.; ZOTOVA, L.A., red.

[Chemistry protects crops] Khimiia zashchishchaet urozhai. Moskva, Izd-vo "Znanie," 1964. 27 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.12) (NIRA 17:7)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-3"

SOLOPEC, Z.F.; GLUSHKO, L.P.; MALIMOVSKIY, M.S.; GAR. K.A.

Dulfanilides. Fart 20; hthyl esters of N-arylsulfonyl-M-arylcarbamic acid. Mur. org. khim. 1 no.1:121-124 Ja '65. (MIRA 18:5)

1. Enepropetrovskiy gesudarstvennyy universitet.

ACC NR. ENT(1)/ENA(j)/EVA(b)-2 RO	
AUTHOR: Gon # (P) Source code: UR/0348/65/000/0	The second secon
AUTHOR: Gar. K. (Doctor of America)	10/0033/0036
AUTHOR: Gar, K. (Doctor of Agricultural Science)	15
ORG: VNIIKHSZR	4.5
	44
TITLE: Pesticide compatability	7
	6
SOURCE: Zashchita rasteniy ot vrediteley i bolezney, no.	
55-36 I bottozney, no.	10, 1965,
TOPIC TAGS. plant at	
TOPIC TAGS: plant disease control, pesticide, fungicide, resction, organic phosphorus compound, organic sulfur compound, copper compound, insect control	Chemiani
compound, copper compound, insect control	Pounda celotum
ADDED A CONTROL	J. C. Land
more of the problem of posticide compatable	
ABSTRACT: The problem of pesticide competability appears simultaneous treatment of plants. The present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions and the present page discussions are required to the present page discussions are required to the present page discussions are required to the present page discussions and the present page discussions are present page discussions.	when two or
compatability of control of plants. The present penen discount	Trou lor
one another indicate of different pesticides and funcicides to	sses the
I WOULD THE DATE ALL SA STORY OF MALOUD HIMMAN INTO THE	and a second the second terms of the second te
addition of soft soap, lime, or alkali to improve wetting a when the toxic effect can be intensified, as in the case.	and to break
when the toxic effect can be intensified, as in the case of	recommended
and the case of	f DDT and
Card 1/2	
UDC: 632	2-981 5
Card 2/2	
	4
	Charles and the control of the contr

ACC NR: AP6000390

polychlorpinene against leaf eating bugs, or when several harmful pests can be destroyed with fewer treatments, as in the case of sulfur and copper fungicides against mildew and cidium on grape vines. Mixing of preparations is not recommended because this may cause burning of plants for the same reason, mineral cil preparations should not be combined with preparations containing sulfur. Also, calcium arsenate which its effect, such as copper oxychloride and hexachloran. In some cases, and, with simultaneous application, the effect is not intensified due to action mechanism differences, as in the case of anabasin- or nicotine with calcium arsenate. Combined application of chemical preparations, approached carefully. Orig. art. has: I table.

SUB CODE: 06, 02/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 2/2

S/832/62/000/000/013/015 D424/D307

AUTHORS:

Gar, P.P., Gundyrev, A.A., Nametkin, N.S., Panchenkov, G.M. and Topchiyev, A.V.

TITLE:

Refractometric investigations of some organosilicon compounds

SOURCE:

Issledovaniya v oblasti kremniyorganicheskikh soyedineniy; sintez i fiziko-khimicheskiye svoystva. Sbornik statey. Inst. neftekhim. sint. AN SSSR. Moscow. Izd-vo AN SSSR, 1962, 228 - 234

TEXT:

The refractive indices at 20°C for the C and F lines of hydrogen (for the first time) and for the D line of sodium have been measured for 46 compounds of the following classes: the hexaalkyl derivatives of disilylmethane, disilylethane, and disilylpropane, and of disiloxane, aryltrialkylsilanes, diaryldialkylsilanes, and linear and cyclic polyethoxysilanes. From the results, the individual, mean and specific dispersions, and the Card 1/3

S/832/62/000/000/013/015 Refractometric investigations ... D424/D307

molecular refraction for the D line, have been calculated. As a rule, in any one class of alkylarylsilanes those in which the alkyl group is ethyl have the highest refractive index. The refractive indices of dialkyldiarylsilanes are about 0.05 units higher than those of the aryltrialkylsilanes with the same alkyl and aryl groups. In the case of the phenyltrialkylsilanes, the introduction of a methyl group into the 4- position of the phenyl ring and then a second methyl group into the 3- position increases the refractive index, while the situation is reversed in the case of the aryltrialkylsilanes. The specific dispersions of aryltrialkylsilanes are 15 - 20 % lower than those of the corresponding diaryldialkylsilanes. The refractive indices of the hexaalkyl derivatives of disilylmethane, disilylethane, and disiloxane increase with a rise in the molecular weight, those of the disiloxanes being less than those of the corresponding members of the other classes. On passing from hexamethyldisilylmethane to the corresponding ethane and propane derivatives, the refractive index increases by 0.0025 units per CH2 group added, while the specific dispersion is decreased. The change in the specific Card 2/3

keiractometric investigations ...

S/832/62/000/000/013/015 D424/D307

dispersion of the hexaalkyldisiloxanes is anomalous, the ethyl compound having the lowest value. The refractive indices of polyethylsiloxanes increase by 0.007 per diethylsiloxy group and are much higher than those of the corresponding polymethyl compounds. Dialkylsilanes have much higher refractive indices and specific dispersions than the corresponding hydrocarbons. The molecular refractions of all the compounds investigated were calculated by Sauer's method (J.Amer.Chem.Soc., 68, 691 (1946)) from established group and bond values and the results were found to be in good agreement with those calculated from the experimental data. There are 3 tables.

Card 3/3

S/062/02/000/003/010/014 B117/B:44

AUTHORS:

Mironov, V. F., Dzhurinskaya, N. G., Gar, T. K., and

Petrov, A. D.

TITLE:

Reactions of allyl halogenides and benzyl chloride with

germanium hydrides

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdel niye khimicheskikh

nauk, no. 3, 1962, 460-465

TEXT: The recently discovered reaction (Izv. AN SSSR Otd. khim. n. 1960, 2066) of trichlorogermaniumhydride with halogenides of the allyl type, in which halogen is substituted by the trichlorogermyl group, was studied in detail. The reactions of allyl iodide and methallyl bromide with trichlorogermaniumhydride were found to proceed exclusively as condensation. Methallyl chloride, similar to allyl chloride, requires, of course, the presence of ether, since essentially without it an addition takes place. In the reactions investigated, high-boiling by-products were always formed which may also contain products of the addition of the second HGeCl₃ molecule at alkenylgermaniumhalogenides. Besides condensation,

Card 1/02

Reactions of allyl halogenides and ...

S/062/62/000/003/010/014 B117/B144

which only occurs in the presence of H₂PtCl₆, other reactions also take place during the reaction of trialkylgermaniumhydrides with allyl halogenides. An experiment to extend the condensation also to saturated and aromatic halogenides was without success so far. With benzyl chloride and tertiary butyl chloride, however, this reaction proceeded successfully, good yields in benzyl trichlorogermaniumhydride and tertiary butyltrichlorogermaniumhydride being obtained. Raman spectra of the new substances whose properties are listed in Table 2 correspond to standards. It was pointed out finally that no similar reactions exist in the chemistry of organic compounds of other elements of group IV. L.A. Leytes is thanked for conducting the spectral analyses. There are 2 tables and 7 references: 6 Soviet and 1 non-Soviet. The reference to the Englishlanguage publication reads as follows: A. J. Vogel, W. T. Cresswell, J. Leicester, J. Phys. Chem. 58, 174 (1954).

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED:

October 20, 1961

Card 2/4

MIRONOV, V.F.; GAR, T.K.

Reaction of trichlorogermane with butadiene. Izv.AN SSSR.Otd. khim.nauk no.3:578 Mr '63. (MIRA 16:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Germanium hydrides) (Butadiene)

		3130
•	1	
•	g/062/62/000/008/006/016	
	s/062/62/000/008/006/016 B117/B180	
	•	
	Mironov, V. F., Gar, T. K., and Leytes, L. A.	•
AUTHORS:	Mironov, V. F., Gar, 1. A., Synthesis and spectra of organogermanium compounds containing Synthesis and spectra of organogermanium compounds containing Synthesis and spectra of organogermanium compounds containing	
	Synthesis and spectra of organogermanium compounds Synthesis and spectra of organogermanium compounds Cyclopentalian cyclopentalian cyclopentyl radicals Cyclopentadienyl, cyclopentenyl and cyclopentyl radicals	
TITLE:	cyclopentadienyl, cyclopentenyl and cyclopenteny	
	cyclopentadienyl, cyclopensol Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh	
PÉRIODICAL:	Akademiya nauk SSSR. 1200801700	
	nauk, no. 0, 1, and	
	have been synthesized for the list radicals	
TEXT: The	nauk, no. 8, 1962, 1967-1995 above compounds have been synthesized for the first time and ectra studied. Compounds containing cyclopentadienyl radicals ectra studied. Compounds containing cyclopentadienyl radicals extra studied.	
their IR sp	that as follows:	
were synthe	Canalitant / Canalitant	
• *	(4)	
1.	(1)	
Син	$\frac{1_{1} MgBr}{-MgBr} - \frac{1_{1} MgBr}{-MgBr}$	/
C,H	$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ & & & & $	1
C'H	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1
C'H	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1
C'H	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1
between 50	$\begin{array}{c c} & & & & \\ & & & & \\ & & & & \\ & & & & $	1
C'H	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1
between 50	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	1
between 50	$\begin{array}{c c} & & & & & & & & & & & & & & & & & & &$	/

Synthesis and spectra of ...

S/(62/62/000/008/006/016 B117/B180

appropriate for the valence fluctuations of the Ge-C bond. Besides this, they all showed a series of lines obviously corresponding to vibrations of the cyclopentadienyl ring bound with the germanium atom. Analysis of the spectra, which resemble those of cyclopentadienyl silane, shows that cyclopentadienyl germanes have covalent structures and are therefore not sandwich compounds. Compounds containing cyclopentenyl or cyclopentyl radicals were synthesized by addition of trichloro germane to cyclopentadiene or cyclopentene. Intense lines in the 370-430 cm-1 range, corresponding to the vibrations of the Ge-Cl bonds, were detected in the spectrum of cyclopentenyl trichloro germane. In the cyclopentyl trimethyl germane spectrum, the valence vibrations of the Ge-C bonds appeared as bright lines in the 550-610 cm-1 band. Above 900 cm-1 the two spectra are similar. Lines typical of the cyclopentane ring were found in the following bands: 890-910 cm-1, 1030 cm-1 (Raman spectrum), 1450-1460 cm-1, 2860-2870 cm-1. It was not possible from the spectra to decide whether the compounds were

GeR3 or GeR3. There are 7 figures and 1 table.

Card 2/3

Synthesis and spectra of ...

S/062/62/000/008/006/016 B117/B180

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences USSR)

SUBMITTED:

February 19, 1962

Card 3/3

MIRONOV, V.F.; GAR, T.K.

Interaction of trichlorogormane with conjugated dienes. Dokl. AN SSSR 152 no.5:1111-1114 0 '63. (MIRA 16:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-3"

L 11462-65 EVT(m)/EPF(c)/EVP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP4044706 S/0062/64/000/008/1515/1518

AUTHOR: Mironov, V. F.; Gar, T. K.

TITLE: Reaction of trichlorogermane with acetylene and its deriva-

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1964, 1515-1518

TOPIC TAGS: trichlorogermane, acetylene, bis(trichlor germyl)ethane, 1,2 bis(trichlorogermyl)ethylene

ABSTRACT: A study of the reaction of trichlorogermane with acetylene showed that different products are obtained, depending on reaction conditions: 1) the bubbling of acetylene through trichlorogermane yields the addition product 1,2-bis(trichlorogermyl)ethane; 2) the addition of trichlorogermane to acetylene-saturated hexane yields trichlorovinylgermane in addition to 1,2-bis(trichlorogermyl)ethane; 3) the addition of trichlorogermane to acetylene-saturated ethyl ether yields the polymer ()

Card 1/2

C1 - GeCH = CH - x;

ACCESSION NR: AP4044706 4) the bubbling of acetylene through trichlogermane etherate yields,

in addition to this polymer, 1,2-bis(trichlorogermyl)ethylene. The reaction of 1,2-bis(trichlorogermyl)ethylene with methylmagnesium chloride yields 1,2-bis(trimethylgermyl)ethylene and the polymer

$$\begin{bmatrix} CH_3 \\ - GeCH = CH - \end{bmatrix}_x.$$

The structure of the synthesized compounds was studied by recording Raman, IR, UV, and NMR spectra and measuring dipole moments. Orig. art. has: 4 figures.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, AN SSSR)

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE:

NO REF SCV: 010

OTHER: 000

Card 2/2

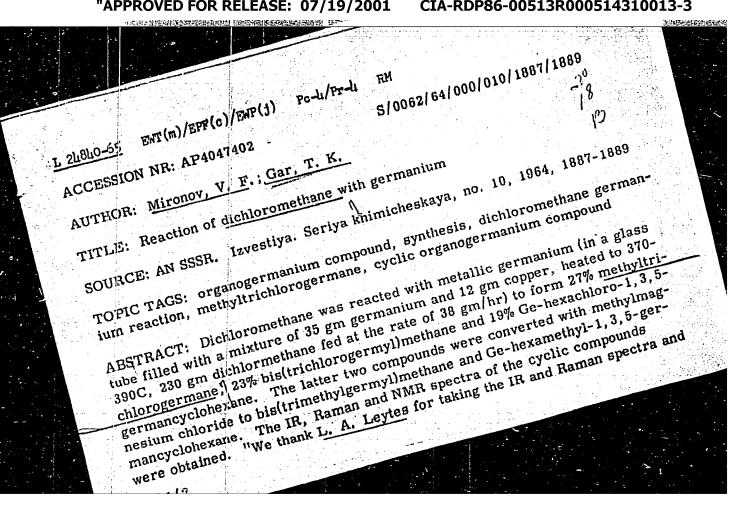
L 14462-65

MIRONOV, V.F.; GAR, T.K.

Interaction of trichlorogermane with acetylene and its derivatives. Izv. AN SSSR. Ser. khim. no.8:1515-1518

Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.



CIA-RDP86-00513R000514310013-3" **APPROVED FOR RELEASE: 07/19/2001**

L 2կ8կ0-65 ACCESSION NR: AP404740) 2
A. M. Yegorochkin for the equation.	2 NMR spectrum." Orig. art. has: 3 figures and 1
ASSOCIATION: Institut orgnauk SSSR (Institute of Org	ganicheskoy khimii im. N. D. Zelinskogo Akademii ganic Chemistry, Academy of Sciences SSSR)
SODMITIED; 24FeD64	ENCL: 00
SUB CODE: GC, OC	NO REF SOV: 004 OTHER: 001

AS(mp)-2/AFWL/RAEM(a)/ESD(gs)/ EWT(m)/EPF(s)/EWP(J)/T Pc-4/Pr-4 L 19604-65 ESD(t) S/0020/64/158/002/0400/0403 ACCESSION NR: AP5003148 AUTHOR: Leytes, L. A.; Gar, T. K.; Mironov, V. F. TITLE: Appearance of sigma, pi-conjugation in the spectra of beta-alkenylgermanes as a function of steric factors SOURCE: AN SSSR. Doklady, v. 158, no. 2, 196h, hou-ho3 TOPIC TAGS: Raman spectrum, germanium compound, pi bonded organome tallic compound, conjugage bond system, beta spectroscopy Abstract: The line intensity in the Raman spectrum of various alkenylgermanes with the Ge atom in the beta-position with respect to the C=C bond was studied. Of five such compounds synthesized, three were by a new condensation reaction discovered by the authors: RC1 + HGeCl, ether R-GeCl, + HC1. It was also demonstrated that the addition of HGeCl, to cyclopentadiene results in the formation of a compound with germanium in the beta-position to the double bond. The frequencies and line intensities corresponding to C=C vibration in the Raman spectra of alkenyl-germanes indicated that the "beta effect" is not specific for compounds of Si, Ge, Sn, but is a particular case of the special properties of allyl and benzyl systems, i.e., the very high reactivity of these systems in ionic addition reactions, their stability in radical reactions, and the ability of allyl Card 1/2

L 19604-65

ACCESSION NR: AP50031 48

hydrogen to be exchanged readily for deuterium, explained by sigma-pi conjugation of the 1-2 and 3-4 bonds in the system G=G-G-M. An analysis of the Raman spectra of the planar rings of two of the compounds synthesized indicated that the "beta effect" is a particular case of sigma-pi conjugation according to Nesmeyanov. It was also found that the induction effect (replacement of the electropositive group (CH₃) 2Ge \(\sigma\) by the electronegative CI₂Ge \(\sigma\)) exerts essentially no influence on I_{C=C}. Orig. art. 5 formulas, 2 graphs, and 1 table.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 08Apr64

ENGL: 00

SUB CODE: OC, OP

NO REF S:V: 016

OTHER: 000

J PRS

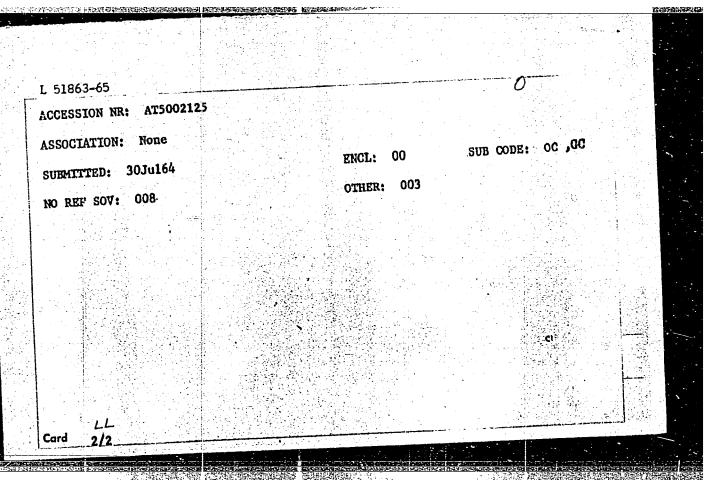
Card 2/2

EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 s/0062/65/000/002/0291/0300 38623-65 ACCESSION NR: APSOOB107 AUTHOR: Mironov, V. F.; Gar, T. K. TITLE: Reactions of trichlorogermane with alkyl, alkenyl, and alkynyl halides SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1965, 291-300 TOPIC TAGS: heteroorganic compound, organogermanium compound, trichlorogermane, alkyl halide, alkenyl halide, alkynyl halide, alkylgermane synthesis, infrared spect:um ABSTRACT: The condensation of trichlorogermane (HGeCl3) with allyl halides, consisting of the substitution of the trichlorogermyl group for the halogen, may be extended to saturated tertiary halides. Secondary and normal alkyl halides do not enter into this reaction, as was shown by experiments using n- and sec-butyl chloride. Propargyl chloride and bromide also condense with trichlorogermane, but this reaction is associated with an addition reaction. The preparation of the following compounds is described: t-butyltrichlorogermane, t-butyltrimethylgermane, triphenylmethylchlorogermane, & -butenyltrichlorogermane, & -butenyltrimethylgermane, Y-chlorobutylchlorogermane, and Y-chlorobutyltrimethylgermane, and Card 1/2

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			5 47.1 5 41 455.50	3,777.
L 38623-65 ACCESSION NR: Al some others. The sibility of the ization of the C	e infrared spect condensation res -Cl bond in the	organic halide	s and mainly	by the poss	o HSiCla,	
ization of the C protonution of t is an equilibriu express our sinc analysis of the ASSOCIATION: In SSSR (Institute	the Ge-H bond in mixture of concere thanks to L products." Ori	mpounds of tetr A. Leytes, whig. art. has: 9	ne, which, in a and divalen to carried out figures, 1 to N. D. Zelin of Sciences,	contrast to germanium the spectrable and 15 akogo Akade	. "We oscopic formulas. mii nauk	
SUBMITTED: 28M	ar63					1
SUBMITTED: 28M		OTHER:	: 008			
SUEMITTED: 25M2 NO REP SOV: 00) OTHER	: 008			

L 51863-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 GS/RM \$/0000/64/000/000/0150/0152 ACCESSION NR: AT5002125 AUTHOR: Mironov, V. F.; Dzhurinskaya, N. G.; Gar, T. K. TITLE: A new reaction for synthesizing organogermanium compounds SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov (The synthesis and properties of monomers). Mozcow, Izd-vo Nauka, 1964, 150-152 TOPIC TAGS: organogermanium bromide, alkyltrichlorogermanium, alkenyltrichlorogermanium, trichlorogermanium addition ABSTRACT: Following an extensive review of previously published research, the authors report a new condensation reaction of HGeCl3 with the halo-derivatives of hydrocarbons, with good yields of alkenyl- or alkyltrichlorogermaniums. This pattern of Ge-C bond formation is entirely unique, since the hydrides of Si, Sn and other metals form hydrocarbons (i.e., reduction) under similar conditions. HGeCl3 can be added to any unsaturated compound at room temperature and without benefit of catalysts. Treatment of organogermanium chlorides with gaseous hydrogen bromide provided high yields of the corresponding organogermanium bromides. Orig. art. has: 11 formulas.

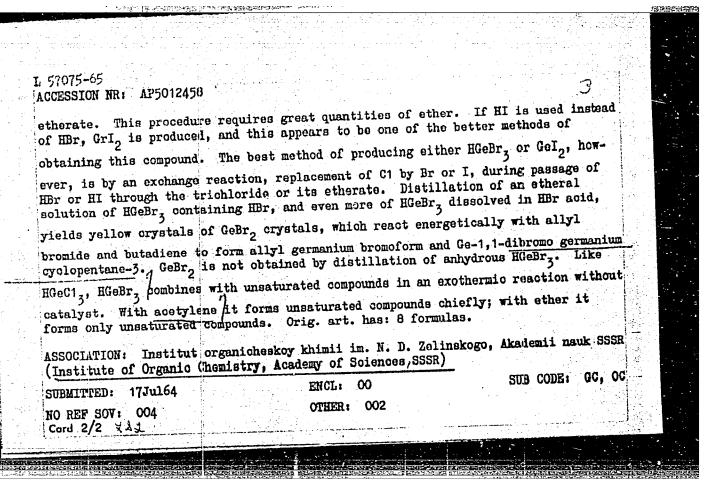
"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310013-3



"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514310013-3

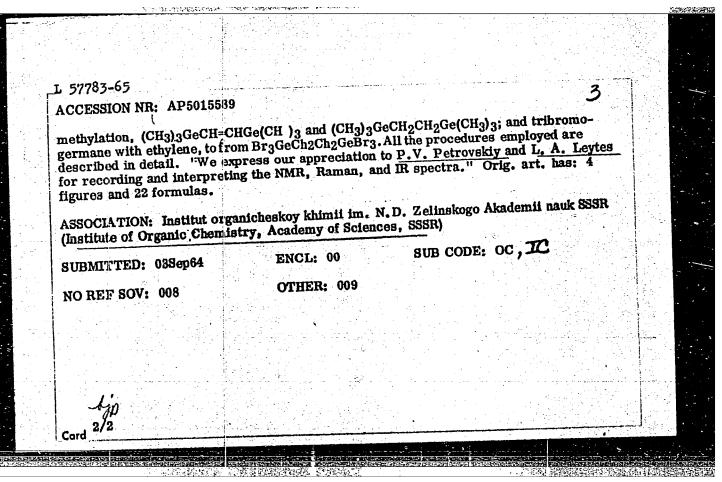
Pe-h/Pr-4 LIP(e) ENT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b)/EWA(c) UR/0062/65/000/004/0755/0758 JD/HM ACCESSION NR: AP5012458 661.718.6 AUTHORS: Mironov, V. F.; Gar, T. K. TITLE: Synthesis and conversion of germanium tribromide SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1965, 755-758 TOPIC TAGS: germanium, bromide, organic synthesis, unsaturated hydrocarbon, organo metallic compound ABSTRACT: When HEr is passed over metallic Ge, both tetrabromide and tribromide form, but only little of the latter. It has been demonstrated that the addition of powdered Cu to Ge somewhat improves the yield of the tribromide, but still the yield is no more than 30%. With ether the tribromide (HGeBr3) forms butyrous etherate, which is insoluble in excess ether. This permits the HGeBr, to be separated from GeBr4, since the latter is readily soluble in ether and only partially in the etherate. It is somewhat more convenient to produce HGeBr3 by dissolving Ge(OH)2 in HBr. The hydroxide may be prepared (free of GeO2) by hydrolysis of the trichloride Card 1/2



"APPROVED FOR RELEASE: 07/19/2001 CI

CIA-RDP86-00513R000514310013-3

EPF(c)/EWP(j)/EWT(m) Pc-4/Pr-4 L 57783-65 UR/0062/65/000/005/0855/0862 ACCESSION NR: AP5015589 AUTHOR: Gar. T.K.; Mironov, V.F. TITLE: Synthesis and transformations of tribromogermane SOURCE: AN SSSR. Izveskiya. Seriya khimicheskaya, no. 5, 1965, 855-862 TOPIC TAGS: germanium compound, organogermanium compound, germanium halide ABSTRACT: The following reactions were carries out: tribromogermane with allyl bromide, to produce CH2=CHCH2GeBr3; germanium dibromide with allyl bromide, to produce CH2=CHCH2GeBr3; tribromogermane with cyclohexene, to give cyclohexyltribromogermane $C_{6}H_{11}GeBr_{3}$; tribromogermane with allyl chloride, to give $ClCH_{2}CH_{2}CH_{2}GeBr_{3}$; tribromo-СЙ-СЙ2 germane with butadiene, to yield CH3CH=CHCH2Ge(CH3)3 and Ge(CH3)2; GeBr2, and after methylation, W dibromide with butadiene, to yield (CH3)2; tribromogermane with acetylene, to form Br3GeCH=CHGeBr3, and after Card 1/2

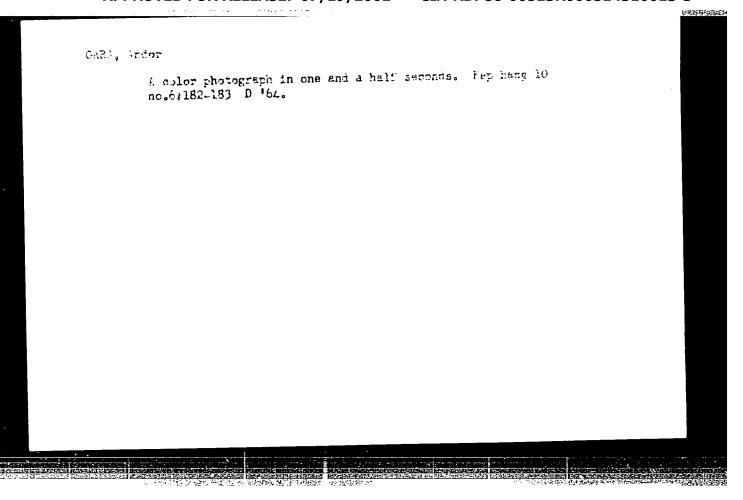


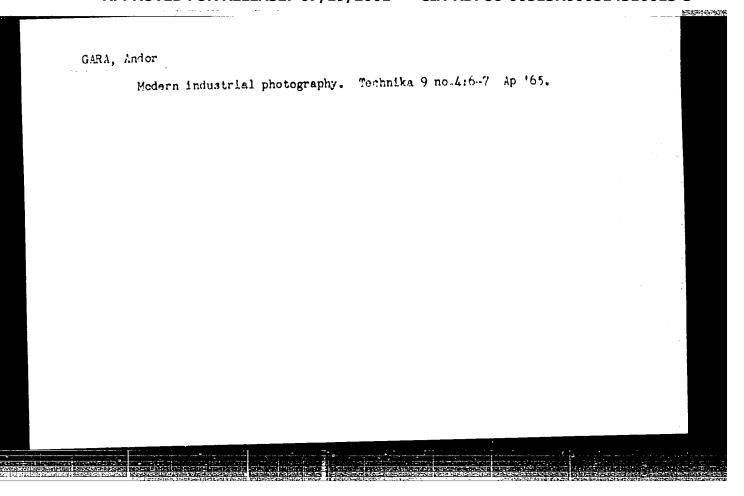
"APPROVED FOR RELEASE: 07/19/2001

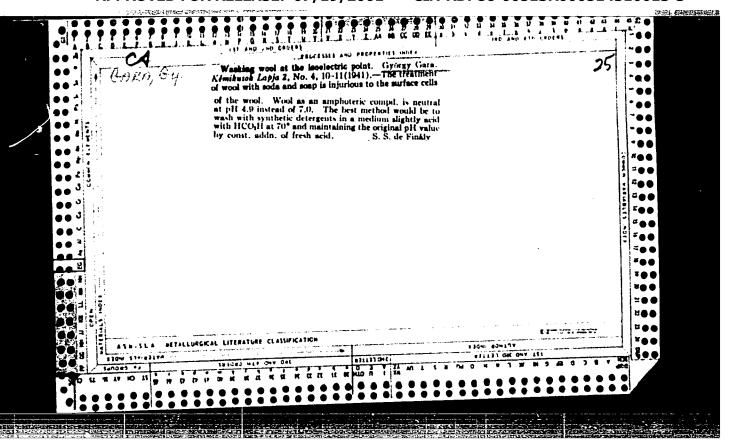
CIA-RDP86-00513R000514310013-3

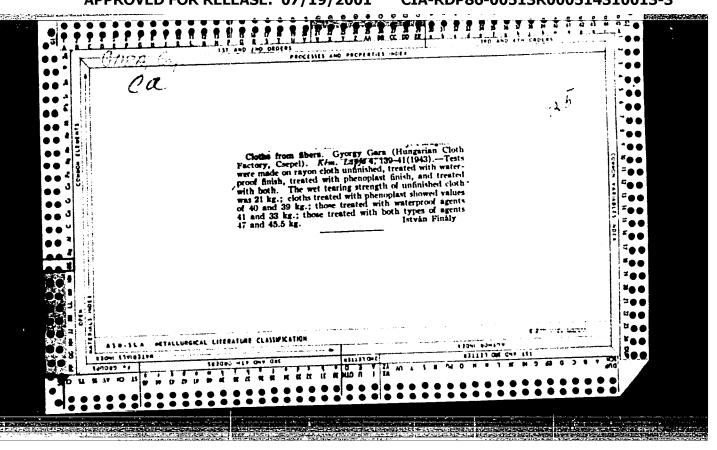
EWT(m)/EWP(j)/T IJP(c)SOURCE CODE: UR/0062/66/000/003/0482/0489 L 31882-66 ACC NR: AP6012531 AUTHOR: Mironov, V. F.; Gar, T. K. ORG: Institute of Organic Chemistry im. N. D. Zelinskogo, Academy of Sciences SSSR (Institut organicheskoy khimii Akademii nauk SSSR) TITLE: Reaction of trichlorogermane with conjugated dienes SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 482-489 TOPIC TAGS: organic synthesis, germanium compound, cyclic compound, diene synthesis ABSTRACT: While HGeCl₃ is added exothermally to practically any unsaturated compounds along unsaturated bonds in the absence of any catalysts or activators, HSiCl₃ adds to these compounds only in the presence of catalysts (Pt, H2PtCl6) or radical activators, frequently also requires elevated temperatures and pressures. It was unexpectedly found that the reaction of butadiene with trichlorogermane leads to formation of a narrow fraction which, on the basis of elemental, chromatographic and spectral analysis, consisted of a mixture of two compounds, one of which present in a predominant amount contained two atoms of chlorine. After methylation of this mixture gas-liquid chromatography still showed the presence of two compounds. The compounds are unsaturated five-membered rings with GeCl₂ group in the ring. The formation of the compounds results from 1-4 addition of germanium dichloride to diene. On the basis of spectral UDC: 542.91+661.718.6 Card 1/2

L 31882-66 ACC NR: AP6012531 data, structure of the two compounds has been elucidated. Isoprene also reacts with GeCl₃ producing a heterocyclic compound. Under the same conditions propylene produces only linear addition products. The following equilibrium is proposed for trichloro-HGeCl₃ == H+[GeCl₃]- == HCl +- GeCl₂ The addition of GeCl₂ leads to a stable compound only in the case of butadiene, since for other unsaturated compounds the unstable three member rings are either polymerized as soon as they are formed or they are split by HCl which is always present in excess. On the theoretical basis, formation of stable three member rings was predicted only for acetylene compounds, but they were not found experimentally when HGeCl3 was reacted with acetylene. Orig. art. has: 6 figures. OTH REF: 002 ORIG REF: 019/ SUBM DATE: 01Nov63/ SUB CODE: 07/ Card 2/2









LISZAUER, Dezso. dr.,; GARA, Gyorgy, dr.

Therapy of fractures of the femur in children with special attention to intramedullary nailing. Magy. sebeszet 9 no.2; 98-103 Apr 56

1. A Budapesti Crvostudomany Mgyetem I. sz. Sebeszeti Klinikajanak (igazgato: nehai Sebesteny Gyula dr. egyetemi tanar) es a Budapesti Janos korhaz orthopaedoszalyanak (foorvos: Horvath Boldizsar dr.) kozlemenye.

(FEMUR, fract.

in child., surg., intramedullary nailing (Hun))

```
CSUROS, Zoltan, prof., dr. (Budapest); GARA, Miklos (Budapest);
Bertalan, Gyorgy (Budapest)

Rheologic investigations of macromolecular substances. VI.
Investigations of the distribution of the inner tensions on hard
PVC blocks. Periodica polytechn chem 3 no.4:255-265 '59.

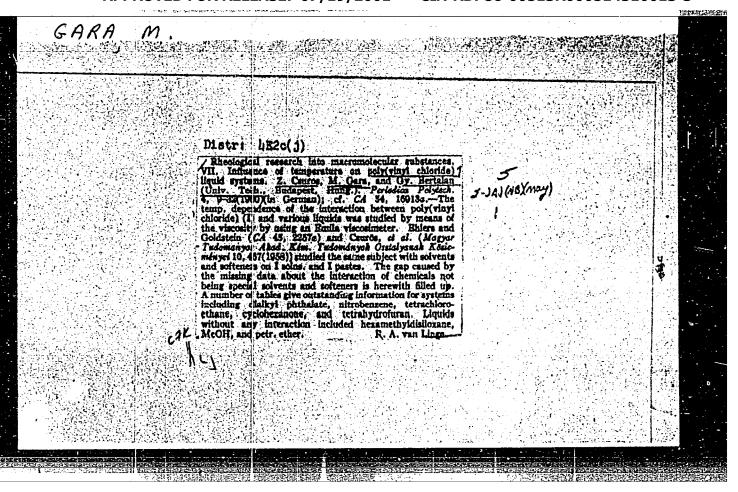
(ERAI 9:6)

1. Institut fur Organisch-Chemische Technologie der
Technischen Universitat, Budapest.

(Macromolecular compounds)

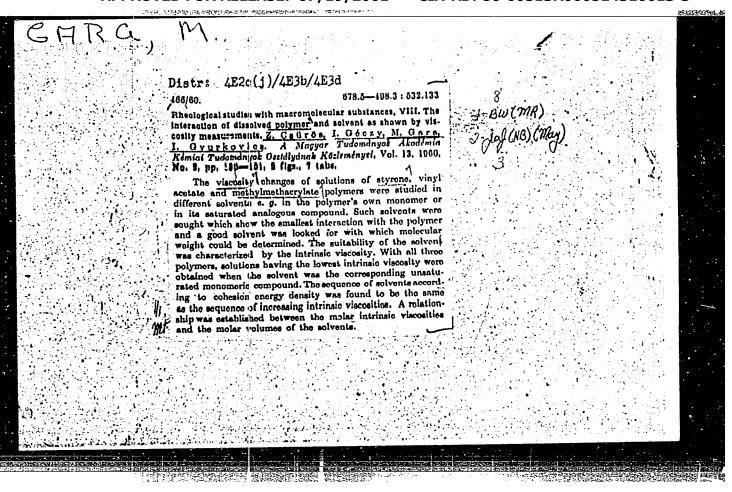
(Chloroethylene)

(Polymers and polymerization)
```



"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514310013-3



CSUROS, Zoltan, akademikus (Budapest); GARA, Miklos, a kemiai tudomanyok kardidatusa (Budapest); BERTALAN, Gyorgy (Budapest); JURASZ, Kalman (Budapest)

Rheologic investigation of macromolecular sutstances. VI. Investigation of the distribution of the inner pressure in a block of hare PVC. Kem tud kozl MTA 13 no.2:129-138 *60. (EEAI 9:8)

1. Muszaki Egyetem, Szerves Kemiai Technologiai Intezet, Budapest. (Macromolecular compounds) (Chloroethylene) (Polymers and polymerization)

CSUROS, Zoltan, akademikus (Budapest); GECZY, Istvan, a kemiai tudomanyok kandidatusa (Budapest); GARA, Miklos, a kemiai tudomanyok kandidatusa (Budapest); GYURKOVICS, Ida (Budapest)

Rheologic investigation of macromolecular substances. VIII. Interaction of dissolved polymer and solvent on the basis of viscosity measurements. Kem tud kozl MTA 13 no.2:139-151 '60. (EEAI 9:8)

1. Muszaki Egyetem, Szerves Kemiai Technologiai Intezet, Budapest. (Solvents) (Viscosity)

of temperature on PVC liquid system 9-32 *60.	lecular substances. VII. l s. Periodica polytechn ch (EE	em 4 no.1: AI 9:12)
1. Institut fur Organisch-Chemische	Technologie der Technisc	hen
Universitat, Budapest. (Rheology) (Liquids)	(Systems (Chemistry))	1
(Macromolecular compounds) (Chloroethylene)		,
(Polymers and polymerization	1)	:
		•
		· f
		•
•		
		1

CSUROS, Zoltan; GARA, Miklos; BERTALAN, Cyorgy

Rheological examination of macromolecular substances. V. Determination of a second-degree transformation point by the Hoppler's consistometer. Magy kem folyoir 66 no.5:174-178 My '60.

1. Budapesti Muszaki Egyetem Szerves Kemiai Technologiai Tanszeke.

5/081/62/000/017/101/102 B177/B186

AUTHORS:

Csurös, Z., Gara, M., Gyurkovics, I.

TITLE:

Copolymerization of allyl alcohol and acryl nitrile under

. the effect of a redox system

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 613, abstract 17R40 (Acta chim. Acad. scient. hung., v. 29, no. 2, 1961,

207 - 225 [Eng.; summaries in Ger. and Russ.])

TEXT: The authors investigate the copolymerization of allyl alcohol (I) and acryl nitrile (II) in the presence of an initiator consisting of $K_2S_2O_9$ and ascorbic acid (1 : 1) (0.0125 mole/1) in an aqueous medium

(~20°, 12 hours). From an initial mixture containing 0.5 - 0.91 molar fraction of I, the yield of copolymer is 98 - 16,0, and the proportion of I in the copolymer is 24.95 - 44.4 mole % respectively. Copolymers containing 35.4 mole % of I are powders soluble in dimethyl formamide. When the proportion of I in the copolymer is increased, resinous products soluble in acetone are formed. Variation of the proportion of I in the copolymer from 33.4 to 44.4 mole % is accompanied by a fall of the Card 1/2

Copolymerization of allyl alcohol and ... B177/B186

softening point from 160 to 580. The molecular weight of the copolymer

(1962 - 2700) decreases with increasing polymerization time. The factor η of the copolymer rises with increasing concentration of monomers in the mixture, and does not depend on the concentration of initiator. The relative activity of radicals $r_1II = 1.99 \pm 0.5$ and $r_2I = 0.03 \pm 0.02$. The polymerization rate is reduced with increasing I in the initial mixture above 0.5 molar fraction, and reaches its maximum at a monomer concentration of 3.04 mole/l. In the range of concentrations of initiator $(3.5 - 15.0 \cdot 10^{-3} \text{ mole/l.})$, the polymerization rate is directly proportional to the concentration of $K_2S_2O_8$, and does not depend on the concentration of ascorbic acid. [Abstracter's note: Complete translation.]

Card 2/2

CSUROS, Z., prof. (Budapest XI., Muegyetem rakpart 3.); GARA, M. (Budapest XI., Muegyetem rakpart 3.); GYURKOVICS, I. (Budapest XI., Muegyetem rakpart 3.); GECZY, I. (Budapest IX., Szamuely utca 30-32.)

Investigation of the interaction between dissolved polymers and solvents by means of viscosimetry. Periodica polytechn chem 5 no.2:101-121 '61.

1. Lehrstuhl fur Organisch-Chemische Technologie, Technische Universitat, Budapest. (for Csuros, Gara, Gyurkovics). 2. Vegyimuveket Tervezo Vallalat, Budapest. (for Geczy).

"APPROVED FOR RELEASE: 07/19/2001 CIA-R

CIA-RDP86-00513R000514310013-3

CSUROS, Zoltan, r.tag (Budapest); GARA, Miklos, a kemiai tudomanyok kandidatusa(Budapest); BERTALAN, Gyorgy (Budapest)

Effect of temperature on PVC-liquid systems. Kem tud kozl MTA 15 no.2:135-156 61.

1. Muszaki Egyetem, Szerves Kemiai Technologiai Tanszek, Budapest.

(Temperature) (Chloroethylene) (Polymers and polymerization) (Liquids) (Systems(Chemistry))